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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,284	04/09/2004	Bradley Moore	DEP5292	1111
27777 PHILIP S. JOH	7590 12/08/201 INSON	EXAMINER		
JOHNSON & .	IOHNSON	HOFFMAN, MARY C		
ONE JOHNSON & JOHNSON PLAZA NEW BRUNSWICK, NJ 08933-7003			ART UNIT	PAPER NUMBER
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			NOTIFICATION DATE	DELIVERY MODE
			12/08/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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## Office Action Summary

Application No.	Applicant(s)		
10/821,284	MOORE ET AL.		
Examiner	Art Unit		
MARY HOFFMAN	3733		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

	earned patent term adjustment.	366.31	CFK	1.704(0).
Stat	us			

1)⊠ Responsive to communication(s) filed on <u>13 October</u> 2a)⊠ This action is <b>FINAL</b> . 2b)□ This action	·				
Since this application is in condition for allowance exclosed in accordance with the practice under Ex part	cept for formal matters, prosecution as to the merits is				
Disposition of Claims					
4) ☑ Claim(s) <u>37-47</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn froi 5) ☐ Claim(s) is/are allowed.  6) ☑ Claim(s) <u>37-47</u> is/are rejected.	n consideration.				
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.  10)☑ The drawing(s) filed on 16 October 2007 is/are: a)☑ Applicant may not request that any objection to the drawing Replacement drawing sheet(s) including the correction is r  11)☐ The oath or declaration is objected to by the Examine	g(s) be held in abeyance. See 37 CFR 1.85(a). equired if the drawing(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priorit a) All b) Some * c) None of:	y under 35 U.S.C. § 119(a)-(d) or (f).				
Certified copies of the priority documents have					
<ol> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority do application from the International Bureau (PCT</li> <li>See the attached detailed Office action for a list of the</li> </ol>	cuments have been received in this National Stage Rule 17.2(a)).				
See the attached detailed Office action for a list of the	certified copies not received.				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) A momentary Draftsperson's Patent Provinces (PTO-95608) Paper No(s)Mail Date 10/13/2010	4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  5) Netice of Informal Fater Lapplication.  6) Other:				
J.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Action Sc	mmary Part of Paper No./Mail Date 20101202				

#### DETAILED ACTION

### Information Disclosure Statement

Applicant should note that the large number of references in the attached IDS filed 10/13/2010 have been considered by the examiner in the same manner as other documents in Office search files are considered by the examiner while conducting a search of the prior art in a proper field of search. See MPEP 609.05(b). Applicant is requested to point out any particular references in the IDS which they believe may be of particular relevance to the instant claimed invention in response to this office action

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 37-43 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim et al. (US 2003/0208203) in view of Chin (US 2005/0065517, see Provisional Application 60518580) and Shluzas (US 20040230100).

Lim et al. disclose a minimally invasive surgical method comprising making a first incision in a patient; inserting a retractor (130, para. [0049]) and expanding it, advancing a first anchor (120) through via the expanded retractor to a first anchor site on a first vertebra; and advancing a second anchor (121) through the expanded retractor to a

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second anchor site on a second vertebra adjacent the first vertebra. Lim further discloses positioning a first end of a spinal rod (200) in the expanded retractor; advancing the first end of the spinal rod subcutaneously; and coupling the spinal rod to the first anchor and the second anchor. Disk material is removed from the disk space between the first and second vertebrae through the first pathway, the method further comprising inserting an interbody fusion device into the disk space (para [0039]). The retractor has an opening that allows the rod to pass through it.

Lim et al. disclose the claimed invention except for the steps of 1.) making a percutaneous incision in the patient and creating a second pathway to the third vertebra by dilating the incision and inserting a cannula/percutaneous access device, advancing a third anchor through the percutaneous incision to a third anchor site on the third vertebra; advancing the first end of the rod subcutaneously/subfascially to the third anchor; and advancing a closure mechanism through the lumen of the percutaneous access device; and further comprising a second rod, and a fourth, fifth, and a sixth anchor, and 2.) the retractor having a plurality of expandable retractor blades and expanding the retractor by separating the retractor blades.

Chin discloses making a percutaneous incision in the patient; creating a second pathway to the third vertebra by dilating the incision and inserting a cannula/percutaneous access device, advancing a third anchor through the percutaneous incision to a third anchor site on the third vertebra; advancing the first end of the rod subcutaneously/subfascially to the third anchor; to perform minimally invasive surgery. (It is noted that the Chin method represents an improvement over the Lim et al.

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method. The incisions required by Chin are much smaller, and are therefore less invasive, and would be especially useful in surgeries spanning larger areas (for example, in surgeries where more than three bone anchors are used on each side of the spine).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the method of Lim et al. making a percutaneous incision in the patient; creating a second pathway to the third vertebra by dilating the incision and inserting a cannula/percutaneous access device (see FIGS. 2a-b) having an opening to facilitate coupling to the rod element, advancing a third anchor through the percutaneous incision to a third anchor site on the third vertebra; advancing the first end of the rod element subcutaneously/subfascially to the third anchor (See FIG. 9); and advancing a closure mechanism through the lumen of the percutaneous access device in view of Chin to perform minimally invasive surgery where more than two anchors are being used. Chin would allow installation of many bone anchors (more than just the two anchors as disclosed in Lim et al.) without requiring a long incision or multiple larger incisions for multiple expandable retractor blades, while still maintaining a larger working space inside the body in which the surgeon could more easily initially insert a less flexible spinal rod before passing it through the body percutaneously. Moreover, the method of Lim et al. for insertion of the rod through the expandable retractor might be desirable to surgeons already trained on and familiar with the tools of Lim et al. used to insert the rod through the larger expandable retractor blades; surgeons might be slow to use the less familiar tools needed in Chin to insert a flexible spinal rod through the

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narrow insertion cannula, even while recognizing the benefit provided by passing the spinal rod under the skin as taught by Chin.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to perform the method of Lim in view of Chin using a second rod, and a fourth, fifth, and a sixth anchor (a second system on the opposite side of the spine), since it has been held that mere duplication involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

 Shluzas disclose using a retractor having a plurality of expandable retractor blades and expanding the retractor by separating the retractor blades (paragraph [0145], see FIG. 12).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to perform the method of Lim with a retractor having a plurality of expandable retractor blades and expanding the retractor by separating the retractor blades in view of Shluzas, since such is a functional equivalent of the single blade expandable retractor disclosed in Lim et al. and would provide the same predictable result of allowing access into a working space within the body.

Claims 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim et al. (US 2003/0208203) in view of Chin (US 2005/0065517, see Provisional Application 60518580) and Shluzas (US 20040230100) further in view of Pagliuca et al. (US 2003/0073998).

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Lim et al. in view of Chin and Shluzas disclose the claimed method except for removing disk material and inserting bone graft/an interbody fusion device into the disc space.

Pagliuca discloses removing disc material and inserting bone graft material/an interbody fusion in conjunction with a spinal anchoring system (FIG. 70, claim 14) to correct some spinal problems.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to perform the method of Lim et al. in view of Chin and Shluzas including removing disc material and inserting bone graft material/an interbody fusion device into the disc space in view of Pagliuca to better correct some spinal problems

### Response to Arguments

Applicant's arguments filed 10/13/2010 have been fully considered but they are not persuasive.

Applicant argues that one of ordinary skill in the art would not combine beneficial aspects of the Lim et al. and Chin methods, but would rather pick one or the other. The examiner respectfully disagrees. In particular, the examiner maintains that combining the two seemingly compatible methods into one hybrid method would have been obvious to one of ordinary skill in the art. As discussed above, the Chin method allows for more than two anchors to be implanted and is less invasive, and thus would be useful in surgeries spanning larger areas of the spine. Combining the two methods into one hybrid method allows for a larger working space through the expandable retractor

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for the surgeon to insert a spinal rod as taught by Lim et al., while at the same time being less invasive in surgeries requiring more than three anchors as taught by Chin.

Regarding Applicant's argument that Chin teaches away from Lim et al., the examiner respectfully disagrees. Chin is an improvement over Lim et al., but there does not appear to be any evidence in either reference that would cause a person of ordinary skill in the art to believe that the Lim et al. and Chin methods could not be combined.

Teaching a better way, i.e. an improvement, is not considered teaching away.

The rejections are deemed proper.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARY HOFFMAN whose telephone number is Application/Control Number: 10/821,284 Page 8

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(571)272-5566. The examiner can normally be reached on Monday-Thursday 10:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo C. Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mary C. Hoffman/ Examiner, Art Unit 3733 /EDUARDO C. ROBERT/ Supervisory Patent Examiner, Art Unit 3733